ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

ALKYLATION CATALYST AND METHOD FOR MAKING ALKYLATED PHENOLS

Application Number:

Confirmation Number:

First Named Applicant:

Hugo Ingelbrecht

Attorney Docket Number:

132401-1

Art Unit:

Examiner:

Search string:

(3446856 or 3974229 or 4041085 or 4048239 or 4554266 or 4547480 or 4554267

or 4933509 or 6395871 or 4900708 or 20020128432).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
Person	4 1	3446856	1969-05-27	Hamilton, Jr.	A 1	260	620
\Box	2	3974229	1976-08-10	Van Sorge	A 1	260	621 R
\Box	3	4041085	1977-08-09	Frabetti, Jr.	A 1	260	621 R
\Box	4	4048239	1977-09-13	Smith	A 1	260	624 C
\Box	5	4554266	1985-11-19	Bennett et al.	A 1	502	344
\Box	6	4547480	1985-10-15	Bennett Jr. et al.	A 1	502	159
	7	4554267	1985-11-19	Chambers et al.	A 1	502	340
	8	4933509	1990-06-12	Warner	A 1	568	804
\coprod	9	6395871	2002-05-28	Watson et al.	B1	528	489
W	10	4900708	1990-02-13	Bennett et al.	A 1	502	340

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
1h	1	20020128432	2002-09-12	Watson et al.	A 1	528	489

Signature

Examiner Name	Date
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M/2	3,446,856	5/27/69	Hamilton, Jr.	-	<u> </u>				
	3,707,569	12/26/72	van Sorge						
	3,764,630	10/9/73	Van Sorge						
	3,790,641	2/5/74	Oshima, et al.						
	3,843,606	10/22/74	Van Sorge						
	3,873,628	3/25/75	Van Sorge				_		
	3,953,529	4/27/76	Yonemitsu, et al.						
	3,962,126	6/8/76	Pecak						
\mathcal{M}	3,968,172	7/6/76	Ichikawa, et al.						
	3,972,828	8/3/76	Van Sorge ,;						
80	3,972,836	8/3/76	Van Sorge						
		FORI	EIGN PATENT DOCUMENTS						
m	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS YES	LATION NO		
	EP 6 102 493	20.07.83	Europe				X		
M~	EP 0 129 065	17.05.84	Europe						
W	EP 0 987 220	17.09.98	Europe						
	EP 0171792	19.02.86	Europe				X		
1~	WO 84/01146	29.03.84	PCT						
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		3,994,982	11/30/76	Leach					,
		4,022,715	5/10/77	Bornfrie	end				
	<u> </u>	4,022,843	5/10/77	Leach					
	,	4,024,195	5/17/77	Yonemi	tsu, et al.				
	٠	4,041,085	8/9/77	Frabetti	, Jr.				· ·
	·	4,048,239	9/13/77	Smith	·				
	4,085,150 4/18/78			Smith					
		4,092,294	5/30/78	Bennett,	Jr., et al.			·	
4,097,411 6/27/78				van Sorg	ge 				
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M		4,126,750	11/21/78	Poe, et a	ıl.			747161	WATE.	
		4,128,728	12/5/78	Arnold,	et al.					
	•	4,140,773	2/20/79	Stowell,	et al.					
	•	4,165,439	8/21/79	Smith						
		4,179,411	12/18/79	Broersm	na, et al.					
	. 4,201,880 5/6/80 van Sor			van Sorg	ge					
		4,208,537	6/17/80	Kawama	nta, et al.					
		4,215,229	7/29/80	Greco						
	•	4,225,732	9/30/80	Dabrows	ski				···· -	
M		4,227,023	10/7/80	Kawamata, et al.						
		4,227,024	10/7/80	Leach						
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w		4,269,735	5/26/81	Leach					
		4,283,574	8/11/81	Leach	-				***************************************
		4,290,924	9/22/81	Leach					· · · · · · · · · · · · · · · · · ·
M		4,322,566	3/30/82	Leach					
	٠	4,329,517	5/11/82	Tanigue	hi, et al.				
		4,351,958 9/28/82 Takaha			a, et al.				
	. 4,375,566 3/1/83 Kan				ata, et al.			·	-
	4,386,266 5/31/83 Adey				al,				
		4,418,224	11/29/83	Bennett,	et al.				
	·	4,452,915	6/5/84	Dabrowski					
V		4,454,357	6/12/84	Inoue, et	al.				
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m		4,458,031	7/3/84	Battista	, et al				WATE.
		4,460,702	7/17/84	Smith					
		4,471,149	9/11/84	Adey, et	t al				
		4,475,001	10/2/84	Leston					
		4,476,329	10/9/84	Chambe	ers, et al.				
		4,482,758	11/13/84	Seig	···				
		4,517,389	5/14/85	Katsum	ata, et al.				
A		4,528,407	7/9/85	Smith					 !
10		4,547,480	Bennett	, Jr. et al.					
		4,533,650	8/6/85	Courty,	et al.				
7	4,554,266 11/19/85				, et al.				·
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W.	4,544,267	·	11/19/85	Chambe	ers, et al.			,	
109	4,560,810		12/24/85	Talley, e	et al.				
	4,572,778		2/25/86	Ward					
	4,590,307		5/20/86	Bennett, Jr. et al.					
	4,605,766		8/12/86	Hargis					
	4,644,086		2/17/87	Voges, e	t al.				
	4,677,089		1/30/87	Bennett,	Jr. et al.				
	4,720,478		1/19/88	Voges, e	t al.				
	4,753,913		6/28/88	Lenz, et	al.				
	4,814,083		3/21/89	Ford, et	al.				
V	4,851,591 7/25/89 Ba		Battista,	et al.					
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<u>-</u>	1		4,900,708	2/13/90	Bennett	t, et al.				
			4,912,264	3/27/90	Takeshi	ita, et al				
			4,933,509	6/12/90	Warner	ſ			· _	
			4,954,475	9/4/90	Bennett	t, Jr. et al.				
			4,969,989	11/13/90	Simpsor	n				
			5,059,727	10/22/91	Ito					
			5,128,304	7/7/92	Ito					
			5,097,079	3/17/92	Bennett	t, Jr. et al.				
			5,175,375	12/29/92	Chang,	et al.				
1	5,227,342 7/13/93				Anderso	on, et al.				
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\perp		5,321,105	7/14/94	Rekers,	et al.				
		5,345,005	9/6/94	Thakur,	et al.				
		5,371,306	12/6/94	Woo, et	al.		1		
		5,488,173	1/30/96	Wang					
		5,622,684	4/22/97	Pinnava	ia, et al.				
		5,672,558	9/30/97	White, e	t al.				
	5,847,237 12/8/98 Ya				al.				
		5,986,138	11/16/99	Satyavat	thi, et al.				
		6,049,008	4/11/00	Roberts, et al.					-
V	6,054,627 4/25/00 Thak		Thakur,	et al.	7				
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m	6	,203,774	3/20/01	Han, et	al. 			ļ	
	6	,261,987	7/17/01	Watson	, et al.				
	6	,291,724	9/18/01	Braat			,		
	6	,294,499	9/25/01	Watson	, et al.				
	6	,395,871	5/28/02	Watson	, et al.				
	6	,492,300	12/10/02	Watson	, et al.				
6	6	,037,295	3/14/00	Satyava	thi, et. al.				
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